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**(54) Title:** METHOD OF PHOTOCHEMICAL IMMOBILIZATION OF LIGANDS USING QUINONES

**(57) Abstract**

A method of immobilizing a ligand (L) to the surface (P) of a carbon-containing substrate material; said method comprising: a photochemical step of linking of one or more photochemically reactive compounds (Q) to a carbon-containing material surface (P); wherein the photochemically reactive compound (Q) is a quinone compound containing a cyclic hydrocarbon, or from 2 to 10 fused cyclic hydrocarbons, with at least two conjugated carbonyl groups; and wherein the photochemical step comprises irradiation of the photochemically reactive compound (Q) with non-ionizing electromagnetic radiation having a wavelength in the range from UV to visible light.

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